533, 665

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number
WO 2004/053396 A1

(51) International Patent Classification[7]: F24C 3/08

(21) International Application Number:
PCT/KR2003/002697

(22) International Filing Date: 9 December 2003 (09.12.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2002-0079237
12 December 2002 (12.12.2002) KR

(71) Applicant *(for all designated States except US)*: **LG ELECTRONICS INC.** [KR/KR]; 20, Yoido-dong, Youngdungpo-gu, 150-721 Seoul (KR).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LEE, Dae Rae** [KR/KR]; 7-208, Daewoo Apt., 63, Sangnam-dong, Changwon-si, 641-830 Gyeongsangnam-do (KR). **JUNG, Dae Hee** [KR/KR]; 104-1709, Sungwontowol Apt., Sangnam-dong, Changwon-si, 641-010 Gyeongsangnam-do (KR).

(74) Agents: **BAHNG, Hae Cheol** et al.; KIMS INTERNATIONAL PATENT & LAW OFFICE, 15th Floor Yo Sam Building, 648-23, Yeoksam-dong, Kangnam-gu, 135-080 Seoul (KR).

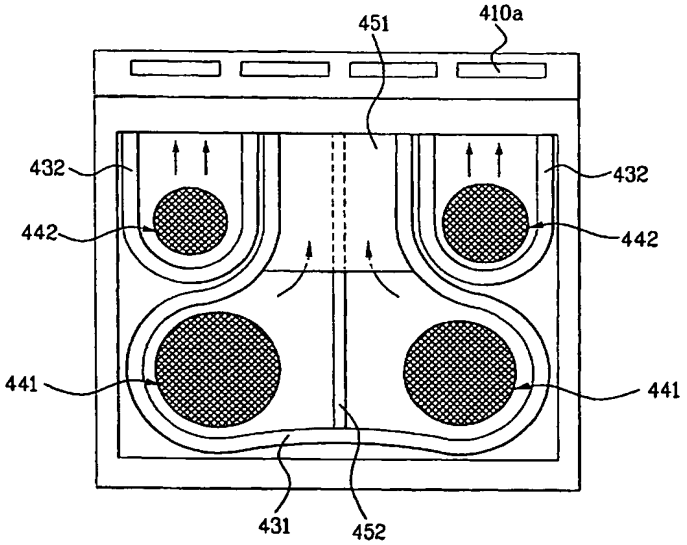
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

[Continued on next page]

(54) Title: APPARATUS FOR VENTILATION IN A RADIATION GAS RANGE



(57) Abstract: Exhaust system in a radiation gas range including a housing having exhaust openings (410a) in a rear part for discharge of exhaust gas, a sheet of glass on top of the housing for transmission of radiant heat to a heating object placed thereon, front and rear burner housings (431,432) in contact with a bottom surface of the sheet of glass for forming spaces to burn mixed gas therein, front radiation gas burners (441) in lower parts of the front burner housings (431) respectively each for burning mixed gas at a surface of a radiation body to generate a radiation energy, rear radiation gas burners (442) in lower parts of the front burner housings (431) respectively each for burning mixed gas at a surface of a radiation body to generate a radiation energy, and an exhaust duct (451) in lower parts of, and in communication with the front and/or rear burner housings (431,432) for discharging exhaust gas from the front and rear radiation burners (441,442) toward the exhaust openings (410a).

WO 2004/053396 A1

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.